Product designation


Product type designation
Power contactor

Contact characteristics

| Number of poles | Nr. | 4 |
| :--- | :---: | :--- |
| Rated insulation voltage Ui IEC/EN | V | 1000 |
| Rated impulse withstand voltage Uimp | kV | 8 |

Operational frequency

|  | $\min$ | Hz | 25 |
| :--- | ---: | ---: | ---: |
|  |  | $\max$ | Hz |

Rated operational power AC-1 $\left(\mathrm{T} \leq 40^{\circ} \mathrm{C}\right)$

|  | 230 V | kW | 132 |
| :--- | ---: | :--- | :--- |
|  | 400 V | kW | 230 |


| IEC max current le in DC3-DC5 with L/R $\leq 15 \mathrm{~ms}$ with 1 poles in series |  |  |  |
| :---: | :---: | :---: | :---: |
|  | $\leq 24 \mathrm{~V}$ | A | 350 |
|  | 48 V | A | 350 |
|  | 75V | A | 250 |
|  | 110 V | A | 135 |
|  | 220 V | A |  |
| IEC max current le in DC3-DC5 with L/R $\leq 15 \mathrm{~ms}$ with 2 poles in series |  |  |  |
|  | $\leq 24 \mathrm{~V}$ | A | 350 |
|  | 48 V | A | 350 |
|  | 75 V | A | 250 |
|  | 110 V | A | 225 |
|  | 220 V | A | 180 |
| IEC max current le in DC3-DC5 with L/R $\leq 15 \mathrm{~ms}$ with 3 poles in series |  |  |  |
|  | $\leq 24 \mathrm{~V}$ | A | 350 |
|  | 48 V | A | 350 |
|  | 75 V | A | 250 |
|  | 110 V | A | 250 |
|  | 220 V | A | 225 |
|  | 330 V | A | 180 |
| IEC max current le in DC3-DC5 with L/R $\leq 15 \mathrm{~ms}$ with 4 poles in series |  |  |  |
|  | $\leq 24 \mathrm{~V}$ | A | 350 |
|  | 48 V | A | 350 |
|  | 75 V | A | 250 |
|  | 110 V | A | 250 |
|  | 220 V | A | 225 |
|  | 330 V | A | 210 |
|  | 460 V | A | 180 |
| Short-time allowable current for 10s (IEC/EN60947-1) |  | A | 1840 |
| Protection fuse |  |  |  |
|  | gG (IEC) | A | 400 |
|  | aM (IEC) | A | 250 |
| Making capacity (RMS value) |  | A | 2300 |
| Breaking capacity at voltage |  |  |  |
|  | 440 V | A | 1840 |
|  | 500 V | A | 1472 |
|  | 690 V | A | 1296 |
| Resistance per pole (average value) |  | $\mathrm{m} \Omega$ | 0.18 |
| Power dissipation per pole (average value) |  |  |  |
|  | Ith | w | 21 |
|  | AC3 | W | 9.3 |
| Tightening torque for terminals |  |  |  |
|  | min | Nm | 18 |
|  | max | Nm | 18 |
|  | min | Ibin | 159 |
|  | max | Ibin | 159 |
| Tightening torque for coil terminal $\begin{array}{llll} \\ \min & \mathrm{Nm} & 0.8\end{array}$ |  |  |  |
|  |  |  |  |
|  | max | Nm | 1 |
| Power terminal protection according to IEC/EN 60529 |  |  | IP00 |
| Mechanical features |  |  |  |
| Operating position |  |  |  |
|  | normal allowable |  | Vertical plan $\pm 30^{\circ}$ |

BF230T4E400
electric
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH $(A C 1)=350 A, A C / D C$ COIL, $250 \ldots$
ENERGY AND AUTOMATION

| Fixing |  |  | Screw |
| :---: | :---: | :---: | :---: |
| Weight |  | g | 4000 |
| Operations |  |  |  |
| Mechanical life |  | cycles | 10000000 |
| Electrical life |  | cycles | 1000000 |
| Safety related data |  |  |  |
| Performance level B10d according to EN/ISO 13489-1 |  |  |  |
|  | rated load | cycles | 1000000 |
| EMC compatibility |  |  | yes |
| AC coil operating |  |  |  |
| Rated AC voltage at $50 / 60 \mathrm{~Hz}, 60 \mathrm{~Hz}$ |  |  |  |
|  | min | V | 250 |
|  | max | V | 500 |
| Rated AC voltage at $50 / 60 \mathrm{~Hz}$ |  | V | 24 |
| AC operating voltage |  |  |  |
| of $50 / 60 \mathrm{~Hz}$ coil powered at 50 Hz pick-up |  |  |  |
|  | min | \%Us | 80 Us min |
|  | max | \%Us | 110 Us max |
| drop-out |  |  |  |
|  | min | \%Us | 20 |
|  | max | \%Us | $\leq 70$ Us min |
| of $50 / 60 \mathrm{~Hz}$ coil powered at 60 Hz pick-up |  |  |  |
|  | min | \%Us | 80 Us min |
|  | max | \%Us | 110 Us max |
| drop-out |  |  |  |
|  | min | \%Us | 20 |
|  | max | \%Us | $\leq 70$ Us min |

AC average coil consumption at $20^{\circ} \mathrm{C}$
of $50 / 60 \mathrm{~Hz}$ coil powered at 50 Hz
$\left.\begin{array}{lrlll} & \text { in-rush } & \text { VA } & 160 \ldots 230 \\ & \text { holding } & \text { VA } & 1.5 \ldots 3.0\end{array}\right]$

DC operating voltage


BF230T4E400
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH $(A C 1)=350 A, A C / D C$ COIL, $250 \ldots$ 500VAC/DC

Mechanical operation
cycles/h 1000

## Operating times

Average time for Us control
in AC
Closing NO

|  | $\min$ | ms | 50 |
| :--- | :--- | :--- | :--- |
| Opening NO | $\max$ | ms | 100 |
|  |  |  |  |
| $\min$ | ms | 30 |  |
| $\max$ | ms | 75 |  |

UL technical data
Yielded mechanical performance
for three-phase AC motor

|  | $200 / 208 \mathrm{~V}$ | HP | 75 |
| :--- | :--- | :--- | :--- |
|  | $220 / 230 \mathrm{~V}$ | HP | 75 |
|  | $460 / 480 \mathrm{~V}$ | HP | 150 |
|  | $575 / 600 \mathrm{~V}$ | HP | 200 |

General USE
Contactor

|  | AC current | A | 350 |
| :---: | :---: | :---: | :---: |
| Short-circuit protection fuse, 600V High fault |  |  |  |
|  |  |  |  |
|  | Short circuit current | kA | 100 |
|  | Fuse rating | A | 400 |
|  | Fuse class |  | J |
| Standard fault |  |  |  |
|  | Short circuit current | kA | 10 |
|  | Fuse rating | A | 400 |
|  | Fuse class |  | RK5 |
| Ambient conditions |  |  |  |

Temperature
Operating temperature

|  | min <br> max | $\begin{aligned} & { }^{\circ} \mathrm{C} \\ & { }^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & -40 \\ & 70 \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Storage temperature |  |  |  |
|  | min | ${ }^{\circ} \mathrm{C}$ | -50 |
|  | max | ${ }^{\circ} \mathrm{C}$ | 80 |
| Max altitude |  | m | 3000 |
| Resistance \& Protection |  |  |  |
| Pollution degree |  |  | 3 |
| Dimensions |  |  |  |

BF230T4E400
electric
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 350A, AC/DC COIL, 250... ENERGY AND AUTOMATION


## Certifications and compliance

Certificates
cULus
ETIM classification
ETIM 8.0
EC000066 -

Power contactor, AC switching

